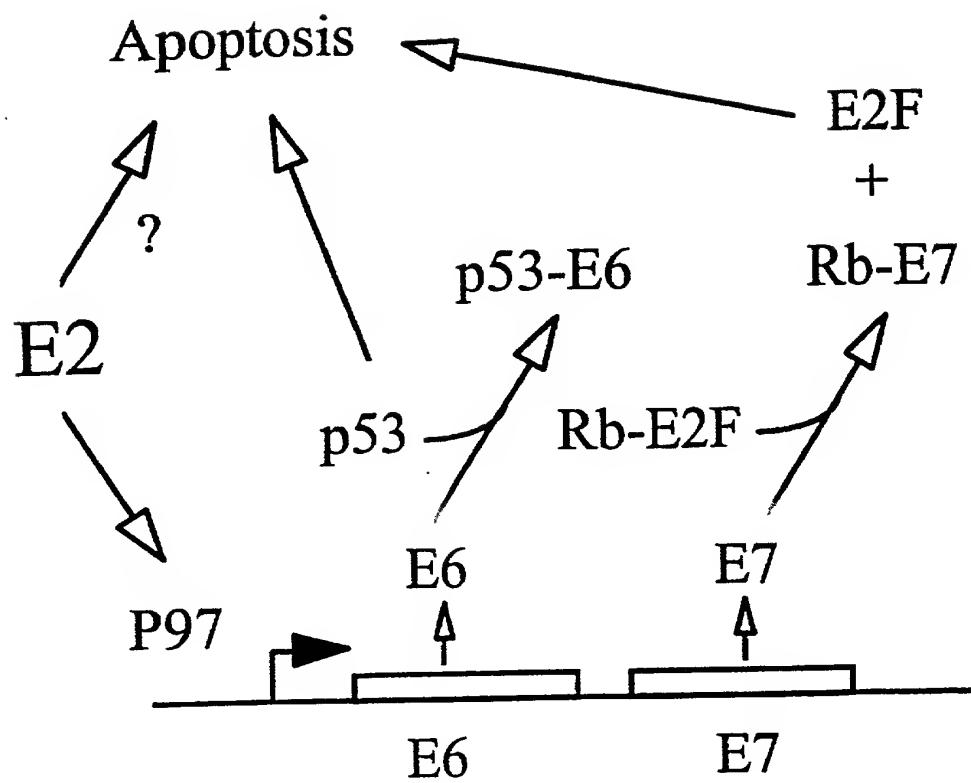


Fig. 1

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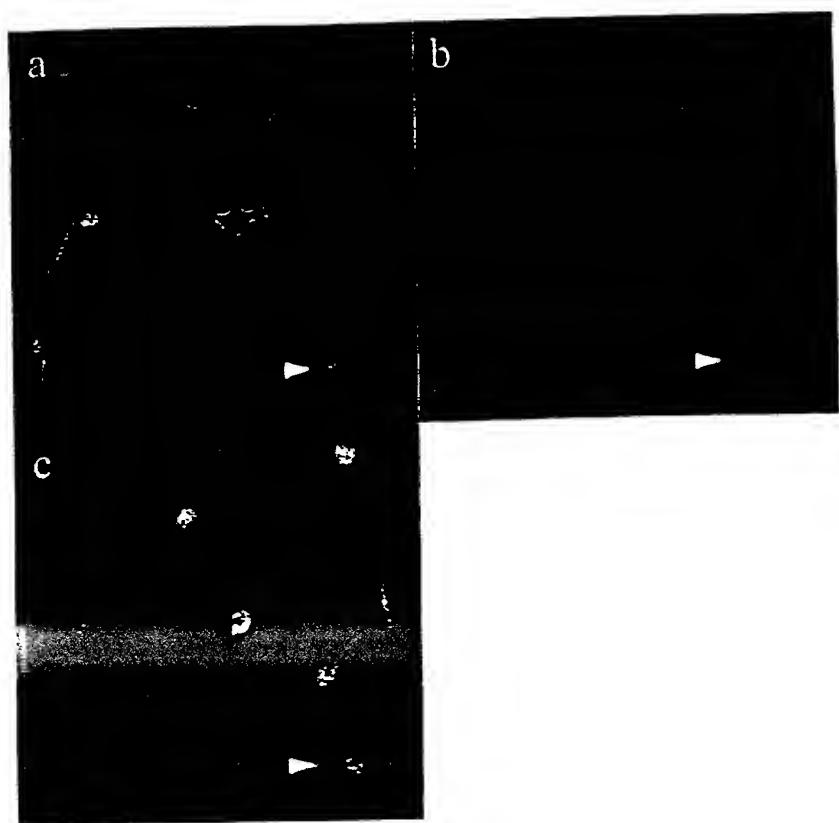
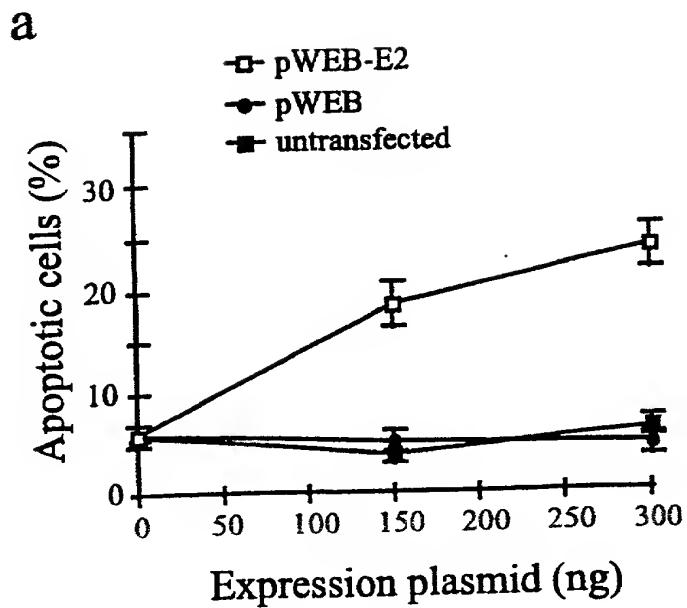


Fig. 2

Fig. 3A



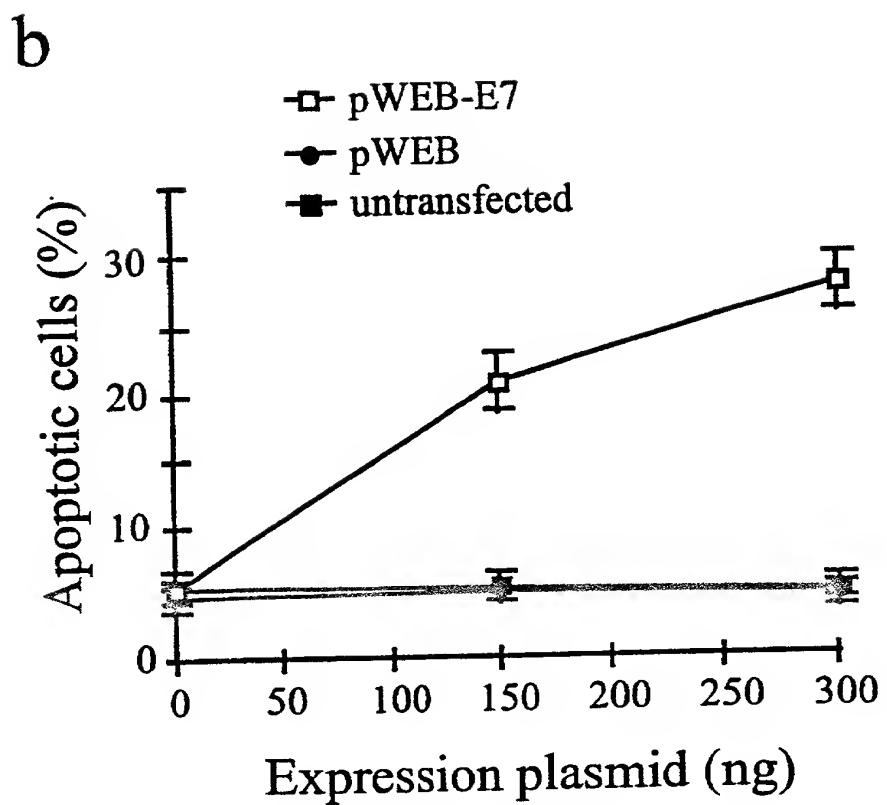


Fig. 3B

Fig. 4

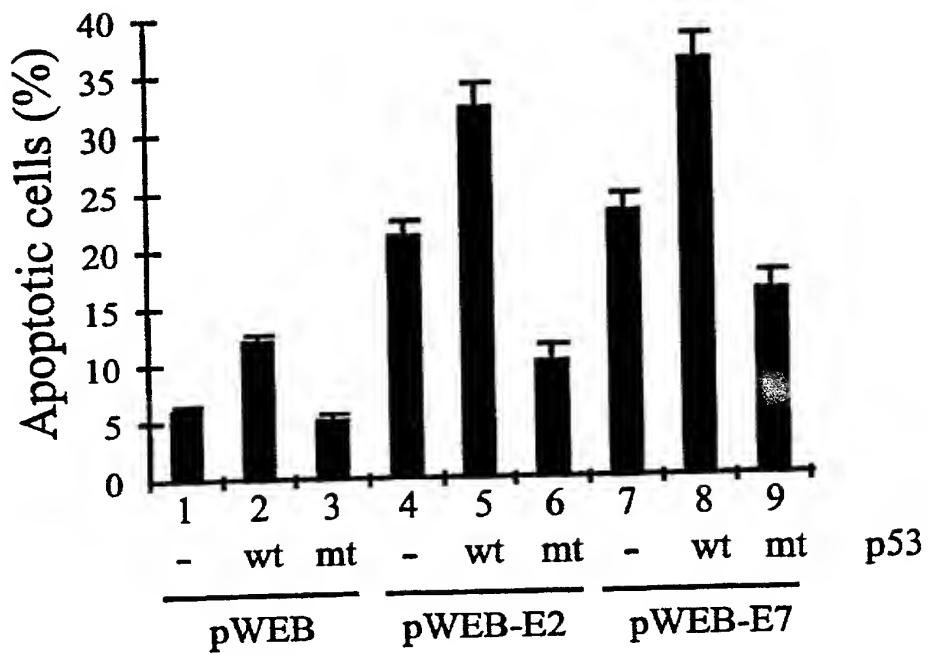
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Fig. 4B

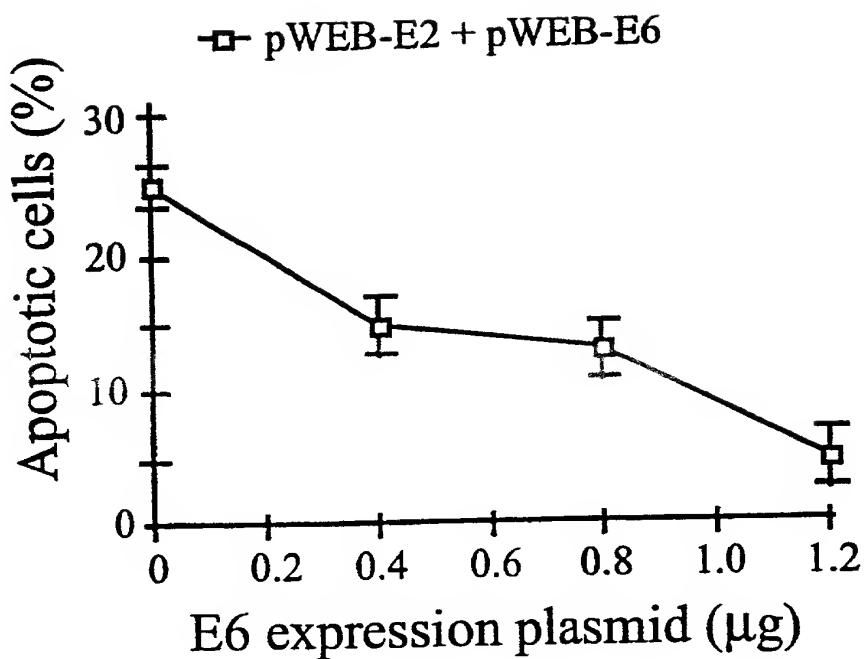
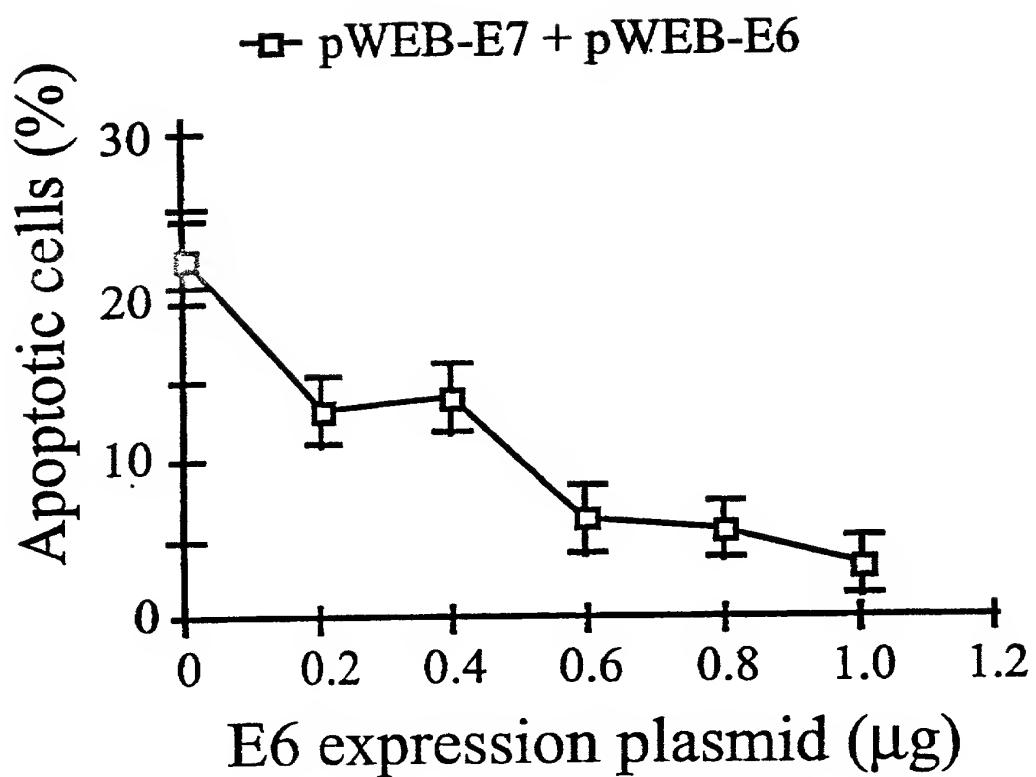
b

Fig 4C

C

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Fig 5A

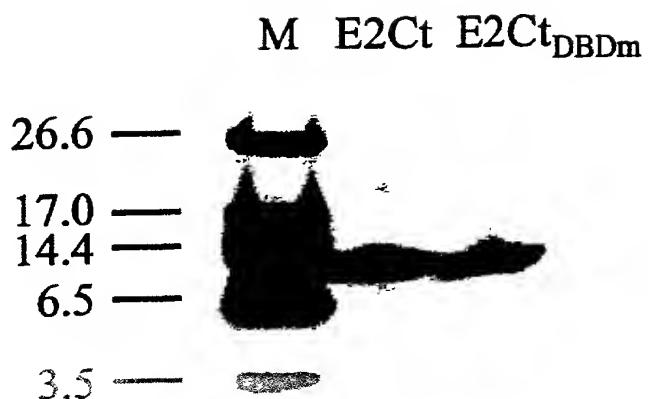
a

Fig 5B

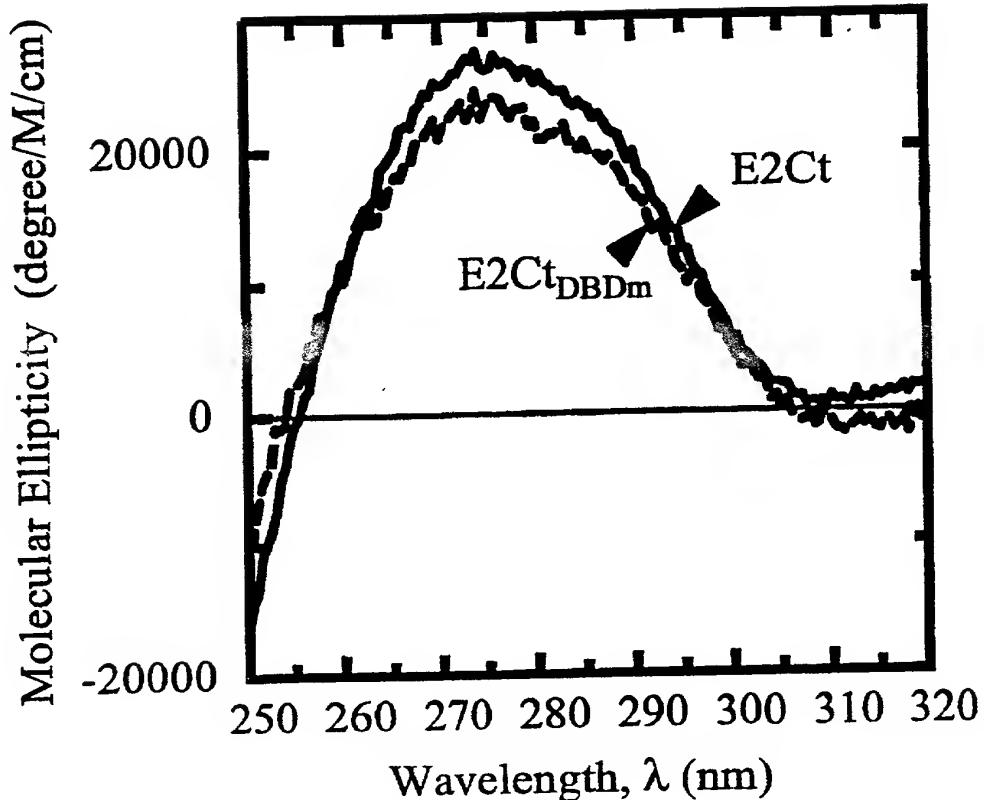
b

Fig 5C

C

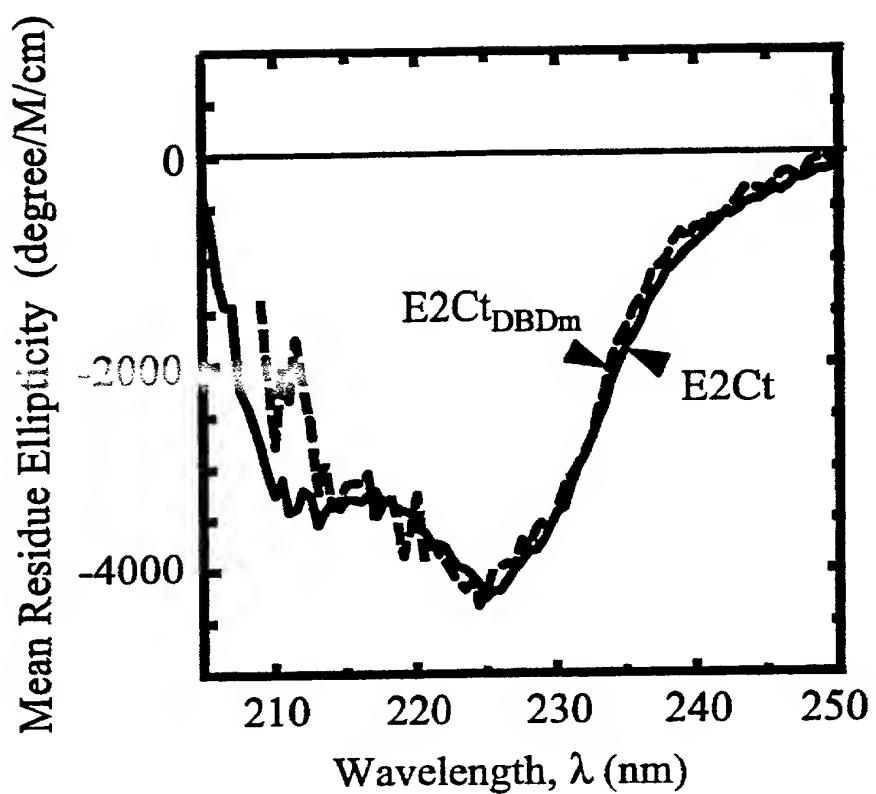


Fig 5D

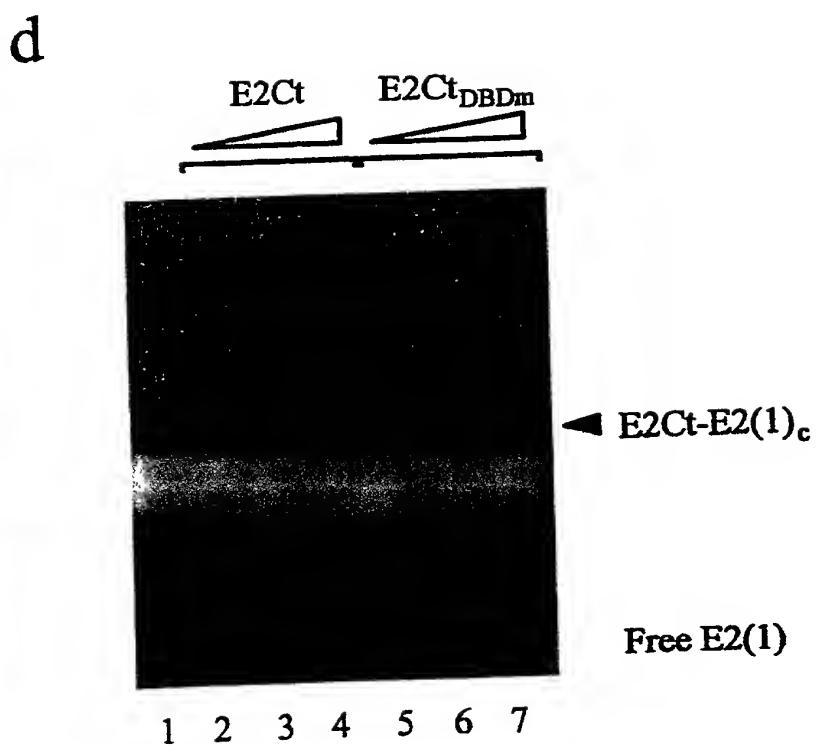


Fig. 6

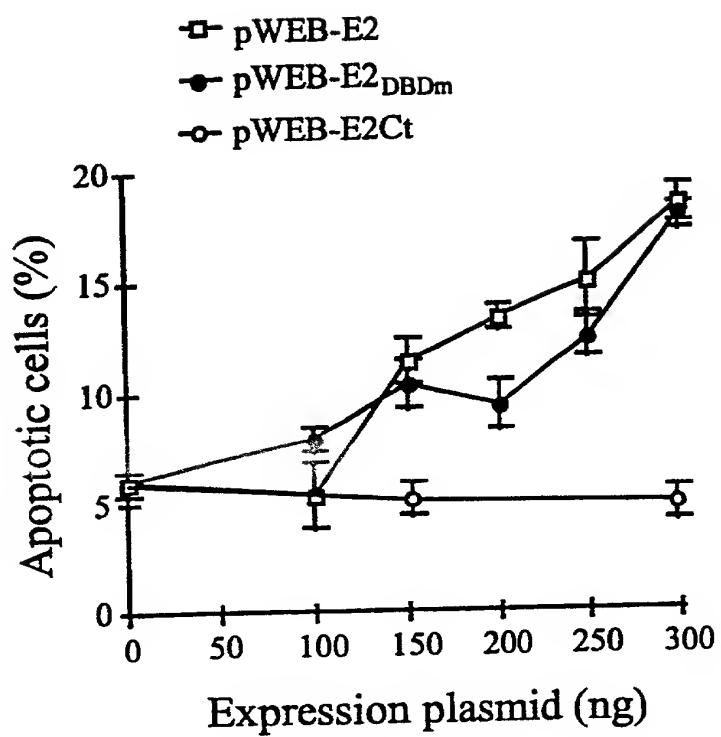


Fig. 7A

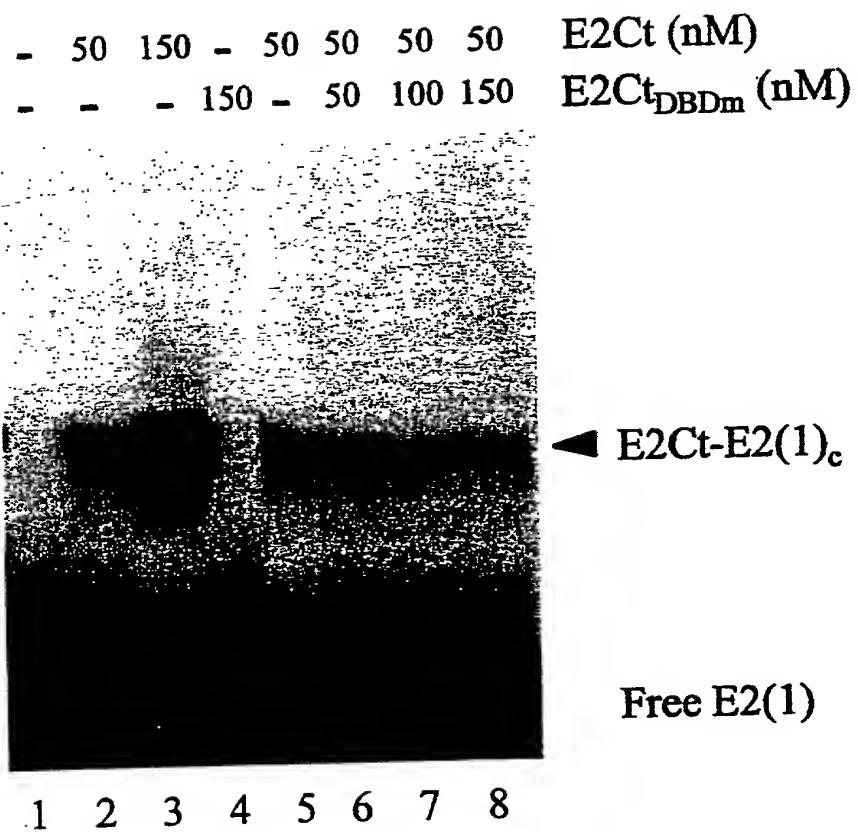
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Fig. 7B

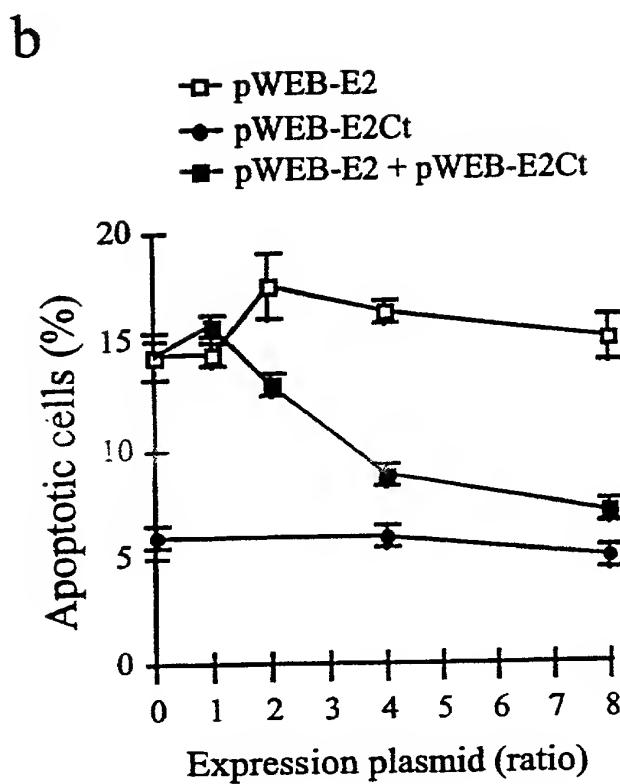


Fig. 8

The E2 proteins used in this work

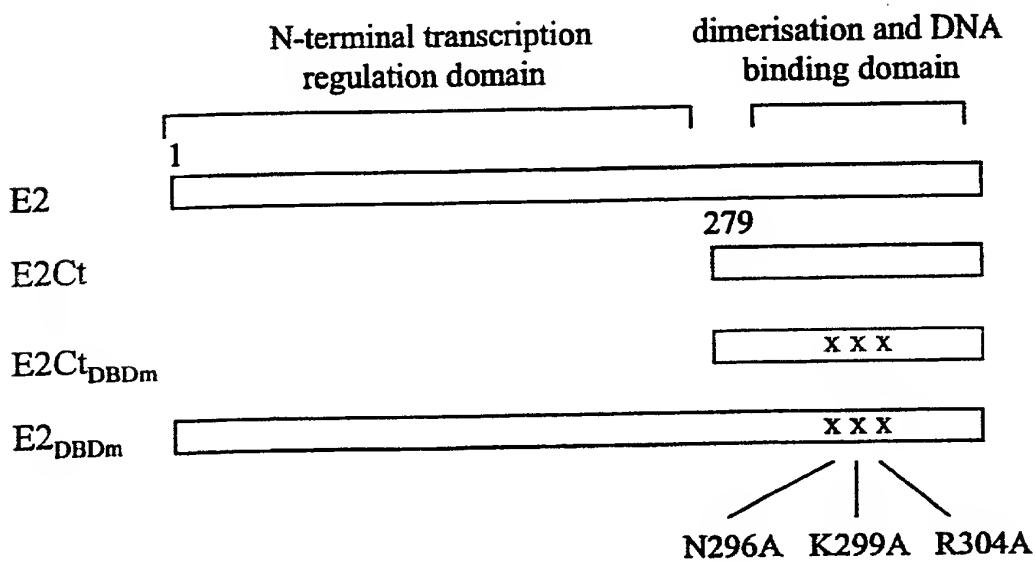


Fig. 9

HPV 16 E2

ATGGAGACTCTTGCCAACGTTAAATGTGTGTCAGGACAAATACTAACACATTATGAA
 2755 M E T L C Q R L N V C Q D K I L T H Y E

AATGATAGTACAGACCTACGTGACCATATAGACTATTGGAAACACATGCGCCTAGAATGT
 2815 N D S T D L R D H I D Y W K H M R L E C

GCTATTTATTACAAGGCCAGAGAAATGGGATTAAACATATTAACCACCAAGTGGTGCCA
 2875 A I Y Y K A R E M G F K H I N H Q V V P

ACACTGGCTGTATCAAAGAATAAAGCATTACAAGCAATTGAAC TGCAACTAACGTTAGAA
 2935 T L A V S K N K A L Q A I E L Q L T L E

ACAATATATAACTCACAAATATAGTAATGAAAAGTGGACATTACAAGACGTAGCCTTGAA
 2995 T I Y N S Q Y S N E K W T L Q D V S L E

GTGTATTTAACTGCACCAACAGGGATGTATAAAAAACATGGATATACAGTGGAAAGTGCAG
 3055 V Y L T A P T G C I K K H G Y T V E V Q

TTTGATGGAGACATATGCAATACAATGCATTACAAACTGGACACATATATATTTGT
 3115 F D G D I C N T M H Y T N W T H I Y I C

GAAGAACATCAGTAACTGTGGTAGAGGGTCAAGTTGACTATTATGGTTATATTATGTT
 3175 E E A S V T V V E G Q V D Y Y G L Y Y V

CATGAAGGAATACGAACATATTTGTGCAGTTAAAGATGATGCAGAAAATATAGTAA
 3235 H E G I R T Y F V Q F K D D A E K Y S K

AATAAAGTATGGGAAGTTCATGCGGGTGGTCAGGTAAATTATGTCCTACATCTGTGTTT
 3295 N K V W E V H A G G Q V I L C P T S V F

AGCAGCAACGAAGTATCCTCTCCTGAAATTATTAGGCAGCAGTGGCCAACCACCCGCC
 3355 S S N E V S S P E I I R Q H L A N H P A

GCGACCCATACCAAGCCGTCGCCCTGGGCACCGAAGAAACACAGACGACTATCCAGCGA
 3415

A T H T K A V A L G T E E T Q T T I Q R

CCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTCACAGAGAC
3475 P R S E P D T G N P C H T T K L L H R D

TCAGTGGACAGTGCTCCAATCCTCACTGCATTAAACAGCTCACACAAAGGACGGATTAAC
3535 S V D S A P I L T A F N S S H K G R I N

TGTAATAGTAACACTACACCCATAGTACATTAAAAGGTGATGCTAATACTTTAAAATGT
3595 C N S N T T P I V H L K G D A N T L K C

TTAAGATATAGATTAAAAAGCATTGTACATTGTATACTGCAGTGTCTACATGGCAT
3655 L R Y R F K K H C T L Y T A V S S T W H

TGGACAGGACATAATGTAAAACATAAAAGTGAATTGTTACACTTACATATGATAGTGAA
3715 W T G H N V K H K S A I V T L T Y D S E

TGGCAACGTGACCAATTGGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTACT
3775 W Q R D Q F L S Q V K . I P K T I T V S T

GGATTATGTCTATATGA
3835 G F M S I * - 3852

Fig 10

HPV 16 E2DBDm

ATGGAGACTCTTGCCAACGTTAAATGTGTGTCAGGACAAAATACTAACACATTATGAA
 2755 M E T L C Q R L N V C Q D K I L T H Y E

AATGATAGTACAGACCTACGTGACCATATAGACTATTGAAACACATGCGCCTAGAATGT
 2815 N D S T D L R D H I D Y W K H M R L E C

GCTATTTATTACAAGGCCAGAGAAATGGGATTAAACATATTAACCACCAAGTGGTGCCA
 2875 A I Y Y K A R E M G F K H I N H Q V V P

ACACTGGCTGTATCAAAGAATAAAGCATTACAAGCAATTGAAC TGCAACTAACGTTAGAA
 2935 T L A V S K N K A L Q A I E L Q L T L E

ACAATATATAACTCACAAATATAGTAATGAAAAGTGGACATTACAAGACGTTAGCCTTGAA
 2995 T I Y N S Q Y S N E K W T L Q D V S L E

GTGTATTAACTGCACCAACAGGATGTATAAAAAACATGGATATACAGTGGAAAGTGCAG
 3055 V Y L T A P T G C I K K H G Y T V E V Q

TTTGATGGAGACATATGCAATACAATGCATTATACAAACTGGACACATATATATTTGT
 3115 F D G D I C N T M H Y T N W T H I Y I C

GAAGAACATCAGTAACTGTGGTAGAGGGTCAAGTTGACTATTATGGTTATATTATGTT
 3175 E E A S V T V V E G Q V D Y Y G L Y Y V

CATGAAGGAATACGAACATATTTGTGCAGTTAAAGATGATGCAGAAAAATAGTAAA
 3235 H E G I R T Y F V Q F K D D A E K Y S K

AATAAAAGTATGGGAAGTTCATGCGGGTGGTCAGGTAAATTATGTCCTACATCTGTGTT
 3295 N K V W E V H A G G Q V I L C P T S V F

AGCAGCAACGAAGTATCCTCTCCTGAAATTATTAGGCAGCACTTGGCCAACCACCCGCC
 3355 S S N E V S S P E I I R Q H L A N H P A

GCGACCCATACCAAGCCGTCGCCCTGGGCACCGAAGAAACACAGACGACTATCCAGCGA
 3415 A T H T K A V A L G T E E T Q T T I Q R

CCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGAC
3475 -----+-----+-----+-----+-----+-----+
P R S E P D T G N P C H T T K L L H R D

TCAGTGGACAGTGCTCCAATCCTCACTGCATTAAACAGCTCACACAAAGGACGGATTAAC
3535 -----+-----+-----+-----+-----+-----+
S V D S A P I L T A F N S S H K G R I N

TGTAATAGTAACACTACACCCATAGTACATTAAAAGGTGATGCTgctACTTTAgcatGT
3595 -----+-----+-----+-----+-----+-----+
C N S N T T P I V H L K G D A A T L A C

TTAAGATATgcaTTAAAAAGCATTGTACATTGTATACTGCAGTGTCTACATGGCAT
3655 -----+-----+-----+-----+-----+-----+
L R Y A F K K H C T L Y T A V S S T W H

TGGACAGGACATAATGTAAAACATAAAAGTGAATTGTTACACTTACATATGATAGTGAA
3715 -----+-----+-----+-----+-----+-----+
W T G H N V K H K S A I V T L T Y D S E

TGGCAACGTGACCAATTTGTCTCAAGTTAAAATACCAAAAACATTACAGTGTCTACT
3775 -----+-----+-----+-----+-----+-----+
W Q R D Q F L S Q V K I P K T I T V S T

GGATTTATGTCTATATGA
3835 -----+-----+----- 3852
G F M S I * -

Fig 11

E2Ct

ATGAACTGTAATAGAACACTACACCCATAGTACATTAAAAGGTGATGCTAATACTTTAAAATGT
M N C N S N T T P I V H L K G D A N T L K C

TTAAGATATAGATTAAAAAGCATTGTACATTGTATACTGCAGTGTCTACATGGCAT
L R Y R F K K H C T L Y T A V S S T W H

TGGACAGGACATAATGTAACATAAAAGTGCATTGTTACACTACATATGATAGTGAA
W T G H N V K H K S A I V T L T Y D S E

TGGCAACGTGACCAATTTGTCTCAAGTTAAAATACCAAAACTATTACAGTGTCTACT
W Q R D Q F L S Q V K I P K T I T V S T

GGATTATGTCTATATGA
G F M S I * - 3852

Fig 12

E2CtDBDm

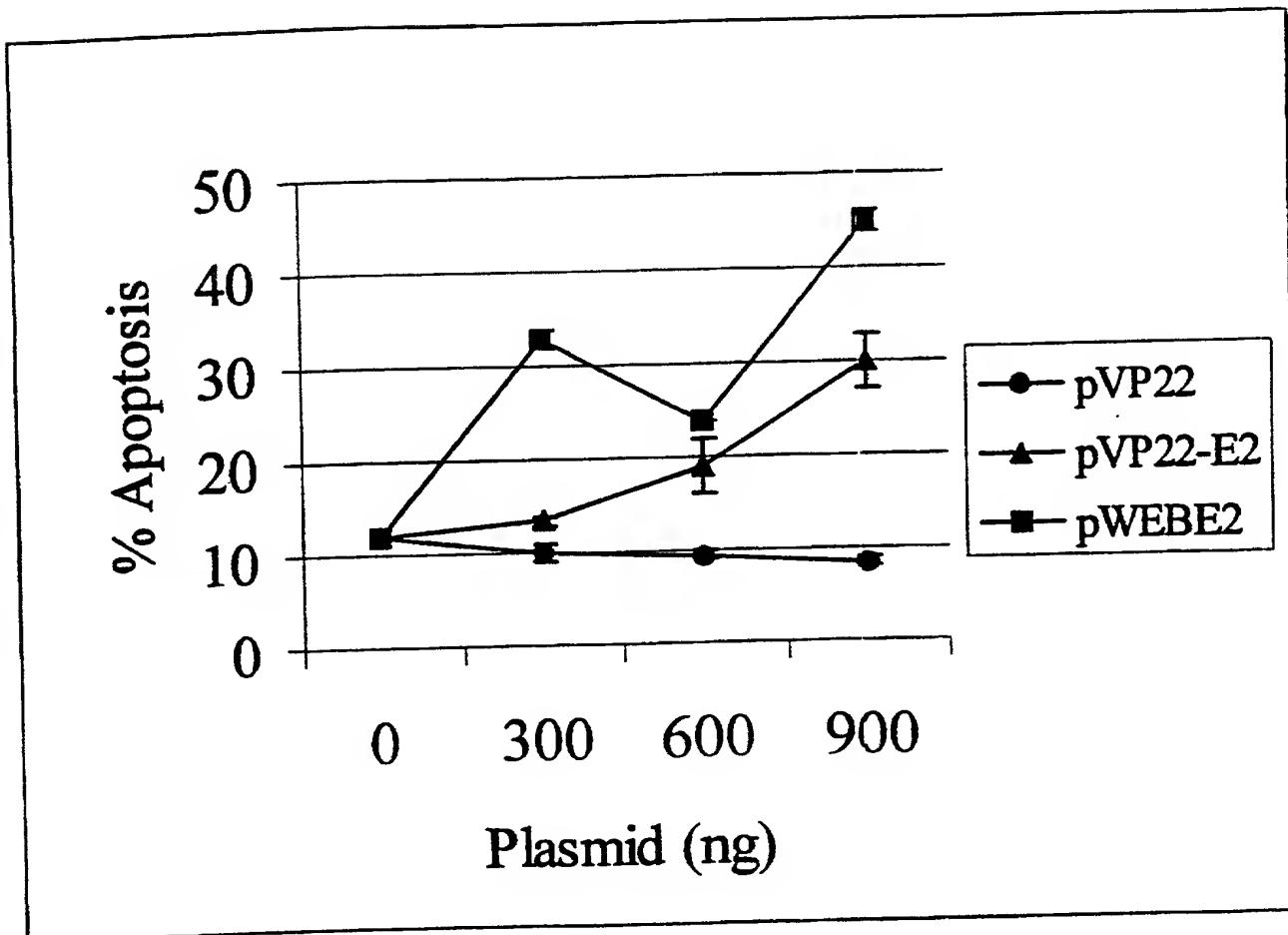
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-----+-----+-----+-----+-----+-----+
M N C N S N T T P I V H L K G D A A T L A C

TTAAGATATgcaTTAAAAAGCATTGTACATTGTATACTGCAGTGTCTACATGGCAT
-----+-----+-----+-----+-----+
L R Y A F K K H C T L Y T A V S S T W H

TGGACAGGGACATAATGTAACATAAAAGTCAATTGTTACACTTACATATGATAGTGAA
-----+-----+-----+-----+-----+
W T G H N V K H K S A I V T L T Y D S E

TGGCAACGTGACCAATTTTGTCAGTTAAACCAAAACTATTACAGTGTCTACT
-----+-----+-----+-----+-----+
W Q R D Q F L S Q V K I P K T I T V S T

GGATTTATGTCTATATGA
-----+-----+--- 3852
G F M S I * -

Fig 13

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